

Docket No. 05-0407  
Quality Exhibit 3.3

Section 440 of the Standard Specifications for Road and Bridge Construction adopted January 1, 2002 by the Illinois Department of Transportation

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Sidewalk ramps shall be constructed and cured as specified in this Section except that final texturing shall be accomplished with an expanded metal grate pressed into the plastic concrete and removed to form a diamond pattern as shown in the plans.

Sidewalk ramps shall be constructed to the same thickness as the adjacent sidewalk with a minimum thickness of 100 mm (4 in.) and shall be measured and paid for as specified for the item of sidewalk involved, and no additional compensation will be allowed.

**424.09 Backfill.** After the concrete has been cured, the spaces along the edges of the sidewalk and ramps shall be backfilled to the required elevation with approved material. The material shall then be compacted until firm, and the surface neatly graded.

**424.10 Disposal of Surplus Material.** Surplus or waste material resulting from the sidewalk construction operations shall be disposed of by the Contractor according to Article 202.03.

**424.11 Method of Measurement.** Portland cement concrete sidewalk and accessibility ramps will be measured for payment in place, and the area computed in square meters (square feet).

**424.12 Basis of Payment.** This work will be paid for at the contract unit price per square meter (square foot) for PORTLAND CEMENT CONCRETE of the thickness specified, which price shall include all required expansion, texturing, and variable height edge treatment at sidewalk ramps.

Earth excavation required will be paid for according to Section 202.

## PAVEMENT REHABILITATION

### SECTION 440. REMOVAL OF EXISTING PAVEMENT AND APPURTENANCES

**440.01 Description.** This work shall consist of the removal and disposal of all existing pavement, base and stabilized subbase, including resurfaced pavement; curb, gutter, and combination curb and gutter, including gutter inlets, outlets, and entrances; paved ditch, median, paved shoulders, driveway pavement, and sidewalk; bituminous surfaces in preparation for subsequent resurfacing; and the partial depth removal of concrete medians. The reference to "paved shoulders" in this Section shall include those shoulders constructed of bituminous and portland cement concrete.

## CONSTRUCTION REQUIREMENTS

**440.02 General.** All existing pavement, including surface courses, base courses, and stabilized subbases, and other appurtenances as listed above, which

interfere with construction work shall be completely removed as shown on the plans or as directed by the Engineer. When portions of existing pavement and appurtenance are to remain in place, provisions shall be made for satisfactory transitions between replacements and the portions remaining in place. The Contractor shall form a perpendicular straight joint by full-depth machine sawing at the ends and all edges of portions to be removed to prevent surface spalling when the concrete is broken out. Any damage done to the existing pavement or appurtenance to remain in place shall be repaired or removed and replaced by the Contractor at his/her own expense, as directed by the Engineer.

It shall be the responsibility of the Contractor to determine the thickness of the existing pavement structure, including overlays, and other appurtenances to be removed, and the extent to which they are reinforced. No additional compensation will be allowed because of variations from the assumed thickness(s) or from the thickness(s) shown on the plans, or for variations in the amount of reinforcement.

Gutter removal shall include the complete removal of all inlets, outlets and entrances that are contained within the limits of the designated removal. The removal of outlets shall include the entire discharge trough and end curtain wall for trough type outlets and the concrete box and outlet pipe for drop box type outlets.

Paved ditch removal shall include the complete removal of all anchor walls and cut-off walls that are contained within the limits of the designated removal.

Any excavation made by the Contractor for the removal shall be replaced. The excavated space shall be filled with material satisfactory to the Engineer and placed according to Section 205 by and at the expense of the Contractor.

**440.03 Bituminous Surface Removal for Subsequent Resurfacing.** The machine for the removal of bituminous surfaces in preparation for subsequent resurfacing shall be a self-propelled planing machine or a self-propelled milling machine.

The planing machine shall have a wheel base width of not less than 3 m (10 ft) and shall be capable of heating, planing and cutting the old surface and depositing the cuttings into a windrow in one or more passes.

The milling machine shall be capable of cold milling and cutting the existing surface and depositing the cuttings into a windrow or directly loading the cuttings into a truck. It shall be capable of removing a layer of bituminous material at least 1.8 m (6 ft) in width and 40 mm (1 1/2 in.) in depth in a single pass. When the width of surface removal is less than 1.8 m (6 ft), machines less than 1.8 m (6 ft) wide will be permitted except that the area milled shall not be wider than the width of the work specified on the plans. The milling machine shall be capable of accurately and automatically establishing profile grades by reference from either the existing pavement or from an independent grade control to provide a milled surface within a tolerance of 5 mm (3/16 in.) in 5 m (16 ft) when tested with a 5 m (16 ft) straightedge. It also shall have an effective means for removing all loose and excess material from the surface and for preventing any dust resulting from the operation from escaping into the air.

The existing bituminous surface shall be removed to the depth specified on the plans. The temperature at which the work is performed, the nature and condition of the equipment, and the manner of performing the work shall be such that the planed or milled surface is not torn, gouged, shoved or otherwise damaged by the planing or milling operation. Sufficient cutting passes shall be made so that all irregularities or high spots are eliminated to the satisfaction of the Engineer. When tested with a 5 m (16 ft) straightedge, the planed or milled surface shall have no surface variations in excess of 5 mm (3/16 in.).

Removing the existing bituminous surface to the required depth adjacent to structures in the pavement surface such as drain castings and utility covers shall be accomplished in a manner satisfactory to the Engineer using either machine or hand methods.

**440.04 Median Removal Partial Depth.** The equipment used for median removal partial depth shall be a self-propelled mobile unit capable of removing the concrete to the depth specified by a cold milling process utilizing tungsten carbide cutting tools. The equipment shall be capable of accurately controlling the elevation and cross slope of the removal, and shall have an effective means of removing the material from the median and of preventing dust from escaping into the air.

**440.05 Removal and Replacement.** Except as provided for in Section 441 or otherwise specified, whenever the plans indicate that the existing pavement structure and/or appurtenances are to be removed and replaced, the removal and the replacement shall be performed and paid for as separate items. Removal shall be according to the requirements specified herein. Replacement shall be according to Sections of these Specifications that pertain to the specific item or items being replaced.

**440.06 Disposal of Material.** Materials resulting from the removal of existing pavement and appurtenances as herein specified shall be disposed of as specified in Article 202.03.

**440.07 Method of Measurement.**

**a) Contract Quantities.** The requirement for use of contract quantities shall be according to Article 202.07(a).

**b) Measured Quantities.** Pavement removal and driveway pavement removal shall be measured for payment in place and the area computed in square meters (square yards).

Bituminous surface removal for subsequent resurfacing will be measured for payment in place and the area computed in square meters (square yards) for each specified increment thickness of material removed.

Curb removal, gutter removal, combination curb and gutter removal and paved ditch removal will be measured for payment in meters (feet). The measurement for curb removal and combination curb and gutter removal will be made along the face of the curb. Paved ditch removal will be measured along the flow line of the paved ditch. Gutter removal will be measured

along the edge of the gutter which is in actual contact with the edge of the pavement.

Sidewalk removal, median removal and median removal partial depth will be measured for payment in place and the area computed in square meters (square feet).

Removal of any of the items listed above outside the designated limits shown on the plans or as directed by the Engineer will not be measured for payment. The removal of base and stabilized subbase will not be measured for payment as separate items, but shall be considered as included in the contract unit price for Pavement Removal, and no additional compensation will be allowed.

**440.08 Basis of Payment.** This work will be paid for at the contract unit price per square meter (square yard) for PAVEMENT REMOVAL, DRIVEWAY PAVEMENT REMOVAL and PAVED SHOULDER REMOVAL; at the contract unit price per square meter (square yard) for BITUMINOUS SURFACE REMOVAL of the thickness specified; at the contract unit price per meter (foot) for CURB REMOVAL, GUTTER REMOVAL, COMBINATION CURB AND GUTTER REMOVAL, and PAVED DITCH REMOVAL; and at the contract unit price per square meter (square foot) for SIDEWALK REMOVAL, MEDIAN REMOVAL and MEDIAN REMOVAL PARTIAL DEPTH. The contract unit price for Pavement Removal shall include removing and disposing of the entire pavement structure.

The contract unit price for Gutter Removal shall include removing all inlets, outlets and entrances, including concrete boxes and outlet pipes, and discharge troughs and end curtain walls even though they may partially extend beyond the limits of measurement.

The contract unit price for Pavement Removal shall include removing and disposing of the entire pavement structure, including surface, base, and stabilized subbase.

The contract unit price for Paved Ditch Removal shall include removing any and all anchor walls and cut-off walls encountered.

## SECTION 441. PAVEMENT REPLACEMENT

**441.01 Description.** This work shall consist of the removal and replacement and any necessary excavation and embankment of all surface, base course, and subbase as shown on the plans.

Where all of the pavement, including subbase, base and surface course, is to be replaced, the item will be specified as "Pavement Replacement". If only surface course, binder course, cushion and joint filler is to be replaced, the item will be specified as "Pavement Replacement - Surface Course".

The term "excavation" or "embankment" as used in this Article refers only to that necessary for the preparation of the subgrade, where the "Pavement Replacement" is to be full depth.

**441.02 Materials.** Materials shall meet the requirements of Section 1000 - Materials.

## CONSTRUCTION REQUIREMENTS

**441.03 General.** All base, surface courses or subbase removed shall be replaced to the original cross section.

The elevation of the surface of the replaced surface course shall not vary more than 3 mm (1/8 in.) from the elevation of the surface of the adjoining surface course. In the case of surface, base course and subbase removal, and the replacement of subgrade in the case of surface course removal, shall be so that this result will be obtained.

Pavement damaged by reason of construction operations outside of the working limits of 600 mm (2 ft) from the form line specified shall be replaced by the Contractor at his/her own expense.

**441.04 Portland Cement Concrete Base and Surface Courses.** Portland cement concrete base or surface courses or natural cement concrete base or surface courses which are removed shall be replaced with portland cement concrete base or surface courses meeting the requirements of Sections 353 and 420, respectively, except that hand methods of consolidating and finishing will be permitted.

**441.05 Brick, Granite Block and Wood Block Surface Courses.** Brick, granite block or wood block surface courses which are removed shall be replaced if specified on the plans or directed by the Engineer. Whole sound brick, granite blocks or wood blocks taken from the original surface course shall be used in the replacement. If additional brick, granite blocks or wood blocks are required, the Contractor shall furnish a similar type and size to those which are being replaced. Brick, granite block or wood block surface course shall be laid on a sand or limestone screenings cushion approximately 25 mm (1 in.) thick, and shall have the joints filled with asphalt. The surface or base, may be restored to the proper elevation by use of approved compacted bituminous material or air-entrained portland cement concrete according to Article 441.04.

**441.06 Bituminous Surface and Binder Courses.** Bituminous surface and binder courses which are removed shall be replaced by an equal thickness of bituminous materials meeting the requirements of either Section 405 or 406. The type used shall be that which closely conforms to the type which was removed, and shall be approved in writing by the Engineer.

**441.07 Gravel or Crushed Stone Base and Surface Courses.** Gravel or crushed stone base and surface courses which are removed shall be replaced by an equal thickness of materials meeting the requirements of Section 351 or Section 402. The type used shall be that which closely conforms to the type which was removed and shall be approved in writing by the Engineer.

**441.08 Base and Subbase Replacement.** All granular or stabilized base and subbase which are removed shall be replaced with an equal compacted thickness of